

Amendments to the Claims

Please amend the claims as follows:

1. (Currently Amended) A tilt controlling method comprising the steps of:
detecting a track of a focus error ~~at the maximum value of for maximizing~~ an RF signal or at
~~the minimum value of minimizing~~ jitter when a focus is on;
detecting the maximum value and the minimum value of the focus error; and
calculating a variation per track of the focus error by using the maximum and minimum
values of the focus error to control the tilt using the variation.

2. (Original)The tilt controlling method according to claim 1, further comprising the step of
calculating a variation per track of the maximum value and the minimum value of the focus error
to detect a normalized DC component.

3. (Original)The tilt controlling method according to claim 2, wherein a tilt reference is
varied as much as the variation per track to control the tilt.

4. (Canceled)

5. (Previously Presented) The tilt controlling method according to claim 1, wherein said
step of calculating a variation per track of the focus error to control the tilt using the variation
comprises the steps of:

calculating the variation per track of the focus error;
detecting a surface vibration from trembling of a disk; and
normalizing the variation per track of the focus error and the surface vibration to control the tilt.

6. (Original) The tilt controlling method according to claim 5, wherein a normalized value and a reference value due to tilt initialization are considered to control the tilt.

7. (Previously Presented) The tilt controlling method according to claim 6, wherein the reference value due to tilt initialization is obtained from an FE track at a point where an RF envelope peak has the maximum value or a jitter has the minimum value.

8. (Previously Presented) The tilt controlling method according to claim 5, wherein a normalized value is proportional to time in a case of constant linear velocity.

9. (Previously Presented) The tilt controlling method according to claim 5, wherein a normalized value is proportional to length in a case of constant angular velocity.

10. (Previously Presented) A tilt controlling method comprising the steps of:

wobbling a tilt driving block according to a reference level in a predetermined direction;

obtaining an FE track at a point where a RF signal has the maximum value; and normalizing the detected FE track.

11. (Previously Presented) A tilt controlling apparatus of an optical record medium, comprising:

a RF and servo error producing unit for producing RF and servo error signals from an electric signal outputted from an optical pickup unit;

a servo controlling unit having a tilt error detecting and controlling block for receiving RF and focus error signals outputted from said RF and servo error producing unit to produce DC and AC values about the tilt initialization and about an optical disk; and

a servo driving unit for controlling said optical pick-up unit in response to a signal of said servo controlling unit,

wherein said tilt error detecting and controlling block includes:

a RF peak detecting block for detecting the peak of an RF envelope;

a detecting block for detecting the maximum and minimum values of a focus error per one rotation of a disk; and

a tilt controlling block for controlling the tilt using the RF signal and an FE signal calculated by using the maximum and minimum values of the focus error.

12-20. (Canceled)